

COMMITTENTE:



ALTA
SORVEGLIANZA:



GENERAL CONTRACTOR:



**INFRASTRUTTURE FERROVIARIE STRATEGICHE DEFINITE DALLA LEGGE
OBIETTIVO N. 443/01
LINEA AV/AC TORINO – VENEZIA Tratta VERONA – PADOVA
Lotto funzionale Verona – Bivio Vicenza
PROGETTO ESECUTIVO
TOPOGRAFIA
INFRASTRUTTURE
GENERALE
RETE DI INQUADRAMENTO - CALCOLO BASELINE INQUADRAMENTO**

| GENERAL CONTRACTOR | | DIRETTORE LAVORI | | SCALA |
|---|--|------------------|--|-------|
| IL PROGETTISTA INTEGRATORE Ing. Giovanni MALAVENDA iscritto all'ordine degli Ingegneri di Venezia n. 4289 Data: APRILE 2021 | Consorzio Iricav Due ing. Paolo Carmona Data: APRILE 2021 | | | |

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA PROGR. REV. FOGLIO

I N 1 7 1 0 E I 2 RT I F 0 0 0 0 0 1 8 A - - - P - - -

| | | VISTO CONSORZIO IRICAV DUE | |
|--|--|----------------------------|-------------|
| | | Firma | Data |
| | | Luca RANDOLFI | APRILE 2021 |

Progettazione:

| Rev. | Descrizione | Redatto | Data | Verificato | Data | Approvato | Data | IL PROGETTISTA |
|------|-------------|----------------|-------------|------------|-------------|-----------|-------------|----------------|
| A | EMISSIONE | GLOBAL SERVICE | APRILE 2021 | RANDOLFI | APRILE 2021 | MALAVENDA | APRILE 2021 | |
| | | | | | | | | |

CIG. 8377957CD1 CUP: J41E91000000009 File: IN1710EI2RTIF0000018A
Cod. origine:



Progetto cofinanziato
dalla Unione Europea



Results - Baseline CS01 - IC03

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:44:08

Point Information

| | Reference: CS01 | Rover: IC03 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | Unknown / - | TOPCON / 8 |
| Antenna type / S/N: | GS16 Pole / - | GR3 / - |
| Antenna height: | 0.9480 m | 1.4710 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 17.76588" N | 45° 22' 08.87291" N |
| Longitude: | 11° 05' 10.91872" E | 11° 11' 27.30460" E |
| Ellip. Hgt: | 98.5777 m | 84.7677 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:CS01 | Rover:IC03 | |
|----------------|------------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 24' 17.76588" N | 45° 22' 08.87315" N | |
| Longitude: | 11° 05' 10.91872" E | 11° 11' 27.30427" E | |
| Ellip. Hgt: | 98.5777 m | 84.7758 m | |
| Solution type: | GPS fix, GLONASS float | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0003 m |
| | Posn. Qlty: 0.0002 m | Sd. Slope: 0.0001 m | |



Results - Baseline CS02 - IC03

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:51:55

Point Information

| | Reference: CS02 | Rover: IC03 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510280 | Unknown / - |
| Antenna type / S/N: | GS15 Pole / - | GS16 Pole / - |
| Antenna height: | 1.3500 m | 1.2850 m |
| Initial coordinates: | | |
| Latitude: | 45° 23' 36.52093" N | 45° 22' 08.87291" N |
| Longitude: | 11° 09' 35.48722" E | 11° 11' 27.30460" E |
| Ellip. Hgt: | 81.8924 m | 84.7677 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:CS02 | Rover:IC03 |
|----------------|-----------------------|--|
| Coordinates: | | |
| Latitude: | 45° 23' 36.52093" N | 45° 22' 08.87286" N |
| Longitude: | 11° 09' 35.48722" E | 11° 11' 27.30461" E |
| Ellip. Hgt: | 81.8924 m | 84.7608 m |
| Solution type: | Phase: all fix | |
| GNSS type: | GPS / GLONASS | |
| Frequency: | L1 and L2 | |
| Ambiguity: | Yes | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m Sd. Hgt: 0.0001 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m |



Results - Baseline CS02 - IGM049703

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:51:52

Point Information

| | | |
|----------------------|------------------------|-------------------------|
| | Reference: CS02 | Rover: IGM049703 |
| Receiver type / S/N: | GS15 / 1510280 | TOPCON / 8 |
| Antenna type / S/N: | GS15 Pole / - | GR3 / - |
| Antenna height: | 1.3500 m | 1.1520 m |
| Initial coordinates: | | |
| Latitude: | 45° 23' 36.52093" N | 45° 24' 36.24477" N |
| Longitude: | 11° 09' 35.48722" E | 11° 12' 51.17810" E |
| Ellip. Hgt: | 81.8924 m | 84.5263 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|-----------------------|------------------------|-------------------|
| | Reference:CS02 | Rover:IGM049703 | |
| Coordinates: | | | |
| Latitude: | 45° 23' 36.52093" N | 45° 24' 36.24469" N | |
| Longitude: | 11° 09' 35.48722" E | 11° 12' 51.17804" E | |
| Ellip. Hgt: | 81.8924 m | 84.5242 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline CS04 - IC08

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:14:52

Point Information

| | Reference: CS04 | Rover: IC08 |
|----------------------|------------------------|---------------------|
| Receiver type / S/N: | TOPCON / 89 | TOPCON / 8 |
| Antenna type / S/N: | GR3 / - | GR3 / - |
| Antenna height: | 1.3820 m | 1.2660 m |
| Initial coordinates: | | |
| Latitude: | 45° 26' 10.03509" N | 45° 27' 17.54945" N |
| Longitude: | 11° 24' 40.26942" E | 11° 25' 41.60781" E |
| Ellip. Hgt: | 96.8508 m | 97.0534 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:CS04 | Rover:IC08 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 26' 10.03509" N | 45° 27' 17.54943" N | |
| Longitude: | 11° 24' 40.26942" E | 11° 25' 41.60781" E | |
| Ellip. Hgt: | 96.8508 m | 97.0526 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline CS05 - IC08

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:57:56

Point Information

| | Reference: CS05 | Rover: IC08 |
|----------------------|------------------------|---------------------|
| Receiver type / S/N: | TOPCON / 8 | GS15 / 1510292 |
| Antenna type / S/N: | GR3 / - | GS15 Pole / - |
| Antenna height: | 1.2070 m | 1.0090 m |
| Initial coordinates: | | |
| Latitude: | 45° 29' 56.62471" N | 45° 27' 17.54945" N |
| Longitude: | 11° 30' 19.94590" E | 11° 25' 41.60781" E |
| Ellip. Hgt: | 85.0480 m | 97.0534 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:CS05 | Rover:IC08 |
|----------------|---|---|
| Coordinates: | | |
| Latitude: | 45° 29' 56.62471" N | 45° 27' 17.54935" N |
| Longitude: | 11° 30' 19.94590" E | 11° 25' 41.60780" E |
| Ellip. Hgt: | 85.0480 m | 97.0530 m |
| Solution type: | Phase: all fix | |
| GNSS type: | GPS / GLONASS | |
| Frequency: | L1 and L2 | |
| Ambiguity: | Yes | |
| Quality: | Sd. Lat: 0.0001 m Posn. Qlty: 0.0002 m | Sd. Lon: 0.0001 m Sd. Slope: 0.0001 m Sd. Hgt: 0.0003 m |



Results - Baseline CS06 - CS05

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:57:01

Point Information

| | Reference: CS06 | Rover: CS05 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510280 | TOPCON / 8 |
| Antenna type / S/N: | GS15 Pole / - | GR3 / - |
| Antenna height: | 1.0610 m | 1.2070 m |
| Initial coordinates: | | |
| Latitude: | 45° 32' 29.42583" N | 45° 29' 56.62471" N |
| Longitude: | 11° 29' 12.66144" E | 11° 30' 19.94590" E |
| Ellip. Hgt: | 88.9799 m | 85.0480 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:CS06 | Rover:CS05 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 32' 29.42583" N | 45° 29' 56.62469" N | |
| Longitude: | 11° 29' 12.66144" E | 11° 30' 19.94588" E | |
| Ellip. Hgt: | 88.9799 m | 85.0548 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0003 m |
| | Posn. Qlty: 0.0002 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC01 - IC02

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:34:44

Point Information

| | Reference: IC01 | Rover: IC02 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510292 | GS15 / 1510280 |
| Antenna type / S/N: | GS15 Pole / - | GS15 Pole / - |
| Antenna height: | 1.2370 m | 0.9650 m |
| Initial coordinates: | | |
| Latitude: | 45° 27' 19.13442" N | 45° 25' 26.29774" N |
| Longitude: | 11° 02' 07.50828" E | 11° 01' 25.21191" E |
| Ellip. Hgt: | 120.1302 m | 105.0081 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 5 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC01 | Rover:IC02 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 27' 19.13442" N | 45° 25' 26.29772" N | |
| Longitude: | 11° 02' 07.50828" E | 11° 01' 25.21192" E | |
| Ellip. Hgt: | 120.1302 m | 105.0082 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0000 m | Sd. Hgt: 0.0001 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC01 - IGM049702

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:36:02

Point Information

| | Reference: IC01 | Rover: IGM049702 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510292 | TOPCON / 89 |
| Antenna type / S/N: | GS15 Pole / - | GR3 / - |
| Antenna height: | 1.2370 m | 1.2420 m |
| Initial coordinates: | | |
| Latitude: | 45° 27' 19.13442" N | 45° 25' 10.14179" N |
| Longitude: | 11° 02' 07.50828" E | 11° 08' 08.17503" E |
| Ellip. Hgt: | 120.1302 m | 99.5317 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC01 | Rover:IGM049702 | |
|----------------|-----------------------|------------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 27' 19.13442" N | 45° 25' 10.14173" N | |
| Longitude: | 11° 02' 07.50828" E | 11° 08' 08.17515" E | |
| Ellip. Hgt: | 120.1302 m | 99.5387 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC02 - CS01

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:39:49

Point Information

| | Reference: IC02 | Rover: CS01 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510292 | Unknown / - |
| Antenna type / S/N: | GS15 Pole / - | GS16 Pole / - |
| Antenna height: | 1.0450 m | 0.9480 m |
| Initial coordinates: | | |
| Latitude: | 45° 25' 26.29774" N | 45° 24' 17.76588" N |
| Longitude: | 11° 01' 25.21191" E | 11° 05' 10.91872" E |
| Ellip. Hgt: | 105.0081 m | 98.5777 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC02 | Rover:CS01 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 25' 26.29774" N | 45° 24' 17.76579" N | |
| Longitude: | 11° 01' 25.21191" E | 11° 05' 10.91889" E | |
| Ellip. Hgt: | 105.0081 m | 98.5738 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC02 - IGM049702

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:38:39

Point Information

| | | |
|----------------------|------------------------|-------------------------|
| | Reference: IC02 | Rover: IGM049702 |
| Receiver type / S/N: | GS15 / 1510280 | TOPCON / 89 |
| Antenna type / S/N: | GS15 Pole / - | GR3 / - |
| Antenna height: | 0.9650 m | 1.2420 m |
| Initial coordinates: | | |
| Latitude: | 45° 25' 26.29774" N | 45° 25' 10.14179" N |
| Longitude: | 11° 01' 25.21191" E | 11° 08' 08.17503" E |
| Ellip. Hgt: | 105.0081 m | 99.5317 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC02 | Rover:IGM049702 | |
|----------------|-----------------------|------------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 25' 26.29774" N | 45° 25' 10.14179" N | |
| Longitude: | 11° 01' 25.21191" E | 11° 08' 08.17512" E | |
| Ellip. Hgt: | 105.0081 m | 99.5376 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC03 - IC04

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:57:24

Point Information

| | Reference: IC03 | Rover: IC04 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | Unknown / - | TOPCON / 8 |
| Antenna type / S/N: | GS16 Pole / - | GR3 / - |
| Antenna height: | 1.2190 m | 1.5940 m |
| Initial coordinates: | | |
| Latitude: | 45° 22' 08.87291" N | 45° 22' 05.24797" N |
| Longitude: | 11° 11' 27.30460" E | 11° 18' 24.30759" E |
| Ellip. Hgt: | 84.7677 m | 81.5107 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC03 | Rover:IC04 | |
|----------------|------------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 22' 08.87291" N | 45° 22' 05.24797" N | |
| Longitude: | 11° 11' 27.30460" E | 11° 18' 24.30759" E | |
| Ellip. Hgt: | 84.7677 m | 81.5108 m | |
| Solution type: | GPS fix, GLONASS float | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0003 m |
| | Posn. Qlty: 0.0002 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC03 - IC05

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:57:26

Point Information

| | Reference: IC03 | Rover: IC05 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | Unknown / - | TOPCON / 8 |
| Antenna type / S/N: | GS16 Pole / - | GR3 / - |
| Antenna height: | 1.2190 m | 0.9950 m |
| Initial coordinates: | | |
| Latitude: | 45° 22' 08.87291" N | 45° 24' 31.56630" N |
| Longitude: | 11° 11' 27.30460" E | 11° 16' 59.00798" E |
| Ellip. Hgt: | 84.7677 m | 86.2862 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC03 | Rover:IC05 | |
|----------------|------------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 22' 08.87291" N | 45° 24' 31.56628" N | |
| Longitude: | 11° 11' 27.30460" E | 11° 16' 59.00798" E | |
| Ellip. Hgt: | 84.7677 m | 86.2841 m | |
| Solution type: | GPS fix, GLONASS float | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC03 - RL38

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:59:35

Point Information

| | Reference: IC03 | Rover: RL38 |
|----------------------|------------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510280 | TOPCON / 8 |
| Antenna type / S/N: | GS15 Pole / - | GR3 / - |
| Antenna height: | 1.2150 m | 1.6950 m |
| Initial coordinates: | | |
| Latitude: | 45° 22' 08.87291" N | 45° 23' 12.62344" N |
| Longitude: | 11° 11' 27.30460" E | 11° 16' 50.74254" E |
| Ellip. Hgt: | 84.7677 m | 72.5107 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC03 | Rover:RL38 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 22' 08.87291" N | 45° 23' 12.58336" N | |
| Longitude: | 11° 11' 27.30460" E | 11° 16' 50.73288" E | |
| Ellip. Hgt: | 84.7677 m | 80.4480 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0003 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC04 - IC05

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:58:59

Point Information

| | Reference: IC04 | Rover: IC05 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | TOPCON / 8 | TOPCON / 8 |
| Antenna type / S/N: | GR3 / - | GR3 / - |
| Antenna height: | 1.5940 m | 0.9950 m |
| Initial coordinates: | | |
| Latitude: | 45° 22' 05.24797" N | 45° 24' 31.56630" N |
| Longitude: | 11° 18' 24.30759" E | 11° 16' 59.00798" E |
| Ellip. Hgt: | 81.5107 m | 86.2862 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC04 | Rover:IC05 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 22' 05.24797" N | 45° 24' 31.56627" N | |
| Longitude: | 11° 18' 24.30759" E | 11° 16' 59.00801" E | |
| Ellip. Hgt: | 81.5107 m | 86.2832 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0001 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC04 - IC06

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:00:20

Point Information

| | Reference: IC04 | Rover: IC06 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | TOPCON / 8 | GS15 / 1510280 |
| Antenna type / S/N: | GR3 / - | GS15 Pole / - |
| Antenna height: | 1.5940 m | 1.5550 m |
| Initial coordinates: | | |
| Latitude: | 45° 22' 05.24797" N | 45° 24' 05.71612" N |
| Longitude: | 11° 18' 24.30759" E | 11° 22' 12.66542" E |
| Ellip. Hgt: | 81.5107 m | 81.8099 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC04 | Rover:IC06 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 22' 05.24797" N | 45° 24' 05.71612" N | |
| Longitude: | 11° 18' 24.30759" E | 11° 22' 12.66542" E | |
| Ellip. Hgt: | 81.5107 m | 81.8100 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0001 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC04 - IC07

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:00:23

Point Information

| | Reference: IC04 | Rover: IC07 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | TOPCON / 8 | GS15 / 1510292 |
| Antenna type / S/N: | GR3 / - | GS15 Pole / - |
| Antenna height: | 1.5940 m | 0.9720 m |
| Initial coordinates: | | |
| Latitude: | 45° 22' 05.24797" N | 45° 26' 19.18568" N |
| Longitude: | 11° 18' 24.30759" E | 11° 21' 07.31518" E |
| Ellip. Hgt: | 81.5107 m | 92.1873 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC04 | Rover:IC07 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 22' 05.24797" N | 45° 26' 19.18565" N | |
| Longitude: | 11° 18' 24.30759" E | 11° 21' 07.31505" E | |
| Ellip. Hgt: | 81.5107 m | 92.1836 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC04 - RL38

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 12:00:21

Point Information

| | | |
|----------------------|---------------------------------------|----------------------------------|
| Receiver type / S/N: | Reference: IC04 Unknown / - | Rover: RL38 TOPCON / 8 |
| Antenna type / S/N: | GS16 Pole / - | GR3 / - |
| Antenna height: | 1.3470 m | 1.6950 m |
| Initial coordinates: | | |
| Latitude: | 45° 22' 05.24797" N | 45° 23' 12.62344" N |
| Longitude: | 11° 18' 24.30759" E | 11° 16' 50.74254" E |
| Ellip. Hgt: | 81.5107 m | 72.5107 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC04 | Rover:RL38 | |
|----------------|------------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 22' 05.24797" N | 45° 23' 12.58322" N | |
| Longitude: | 11° 18' 24.30759" E | 11° 16' 50.73305" E | |
| Ellip. Hgt: | 81.5107 m | 80.4605 m | |
| Solution type: | GPS fix, GLONASS float | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0003 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC05 - IC07

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:01:39

Point Information

| | Reference: IC05 | Rover: IC07 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | TOPCON / 8 | GS15 / 1510292 |
| Antenna type / S/N: | GR3 / - | GS15 Pole / - |
| Antenna height: | 0.9950 m | 0.9720 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 31.56630" N | 45° 26' 19.18568" N |
| Longitude: | 11° 16' 59.00798" E | 11° 21' 07.31518" E |
| Ellip. Hgt: | 86.2862 m | 92.1873 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC05 | Rover:IC07 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 24' 31.56630" N | 45° 26' 19.18570" N | |
| Longitude: | 11° 16' 59.00798" E | 11° 21' 07.31507" E | |
| Ellip. Hgt: | 86.2862 m | 92.1869 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0001 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC05 - RL38

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 12:01:08

Point Information

| | Reference: IC05 | Rover: RL38 |
|----------------------|------------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510292 | TOPCON / 8 |
| Antenna type / S/N: | GS15 Pole / - | GR3 / - |
| Antenna height: | 0.7310 m | 1.6950 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 31.56630" N | 45° 23' 12.62344" N |
| Longitude: | 11° 16' 59.00798" E | 11° 16' 50.74254" E |
| Ellip. Hgt: | 86.2862 m | 72.5107 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC05 | Rover:RL38 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 24' 31.56630" N | 45° 23' 12.58325" N | |
| Longitude: | 11° 16' 59.00798" E | 11° 16' 50.73304" E | |
| Ellip. Hgt: | 86.2862 m | 80.4634 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC06 - CS04

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:11:34

Point Information

| | Reference: IC06 | Rover: CS04 |
|----------------------|------------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510280 | TOPCON / 89 |
| Antenna type / S/N: | GS15 Pole / - | GR3 / - |
| Antenna height: | 1.4380 m | 1.3820 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 05.71612" N | 45° 26' 10.03509" N |
| Longitude: | 11° 22' 12.66542" E | 11° 24' 40.26942" E |
| Ellip. Hgt: | 81.8099 m | 96.8508 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC06 | Rover:CS04 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 24' 05.71612" N | 45° 26' 10.03504" N | |
| Longitude: | 11° 22' 12.66542" E | 11° 24' 40.26950" E | |
| Ellip. Hgt: | 81.8099 m | 96.8487 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0001 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC06 - IC07

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:06:59

Point Information

| | Reference: IC06 | Rover: IC07 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510280 | GS15 / 1510292 |
| Antenna type / S/N: | GS15 Pole / - | GS15 Pole / - |
| Antenna height: | 1.5550 m | 0.9720 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 05.71612" N | 45° 26' 19.18568" N |
| Longitude: | 11° 22' 12.66542" E | 11° 21' 07.31518" E |
| Ellip. Hgt: | 81.8099 m | 92.1873 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 5 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC06 | Rover:IC07 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 24' 05.71612" N | 45° 26' 19.18574" N | |
| Longitude: | 11° 22' 12.66542" E | 11° 21' 07.31508" E | |
| Ellip. Hgt: | 81.8099 m | 92.1882 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0000 m | Sd. Hgt: 0.0001 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC06 - IC08

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:06:57

Point Information

| | Reference: IC06 | Rover: IC08 |
|----------------------|------------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510280 | TOPCON / 89 |
| Antenna type / S/N: | GS15 Pole / - | GR3 / - |
| Antenna height: | 1.5550 m | 1.2600 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 05.71612" N | 45° 27' 17.54945" N |
| Longitude: | 11° 22' 12.66542" E | 11° 25' 41.60781" E |
| Ellip. Hgt: | 81.8099 m | 97.0534 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC06 | Rover:IC08 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 24' 05.71612" N | 45° 27' 17.54948" N | |
| Longitude: | 11° 22' 12.66542" E | 11° 25' 41.60781" E | |
| Ellip. Hgt: | 81.8099 m | 97.0555 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0003 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC06 - IGM049705

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:10:20

Point Information

| | Reference: IC06 | Rover: IGM049705 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510280 | Unknown / - |
| Antenna type / S/N: | GS15 Pole / - | GS16 Pole / - |
| Antenna height: | 1.4380 m | 1.1800 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 05.71612" N | 45° 27' 30.28481" N |
| Longitude: | 11° 22' 12.66542" E | 11° 23' 23.17530" E |
| Ellip. Hgt: | 81.8099 m | 114.0676 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|-----------------------|------------------------|-------------------|
| | Reference:IC06 | Rover:IGM049705 | |
| Coordinates: | | | |
| Latitude: | 45° 24' 05.71612" N | 45° 27' 30.28474" N | |
| Longitude: | 11° 22' 12.66542" E | 11° 23' 23.17536" E | |
| Ellip. Hgt: | 81.8099 m | 114.0652 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0001 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC07 - CS04

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:12:55

Point Information

| | Reference: IC07 | Rover: CS04 |
|----------------------|------------------------|---------------------|
| Receiver type / S/N: | GS15 / 1510292 | TOPCON / 89 |
| Antenna type / S/N: | GS15 Pole / - | GR3 / - |
| Antenna height: | 0.8800 m | 1.3820 m |
| Initial coordinates: | | |
| Latitude: | 45° 26' 19.18568" N | 45° 26' 10.03509" N |
| Longitude: | 11° 21' 07.31518" E | 11° 24' 40.26942" E |
| Ellip. Hgt: | 92.1873 m | 96.8508 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC07 | Rover:CS04 | |
|----------------|-----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 26' 19.18568" N | 45° 26' 10.03509" N | |
| Longitude: | 11° 21' 07.31518" E | 11° 24' 40.26942" E | |
| Ellip. Hgt: | 92.1873 m | 96.8510 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC07 - IGM049705

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:12:53

Point Information

| | | |
|----------------------|------------------------|-------------------------|
| | Reference: IC07 | Rover: IGM049705 |
| Receiver type / S/N: | GS15 / 1510292 | Unknown / - |
| Antenna type / S/N: | GS15 Pole / - | GS16 Pole / - |
| Antenna height: | 0.8800 m | 1.1800 m |
| Initial coordinates: | | |
| Latitude: | 45° 26' 19.18568" N | 45° 27' 30.28481" N |
| Longitude: | 11° 21' 07.31518" E | 11° 23' 23.17530" E |
| Ellip. Hgt: | 92.1873 m | 114.0676 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC07 | Rover:IGM049705 | |
|----------------|-----------------------|------------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 26' 19.18568" N | 45° 27' 30.28479" N | |
| Longitude: | 11° 21' 07.31518" E | 11° 23' 23.17530" E | |
| Ellip. Hgt: | 92.1873 m | 114.0671 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0001 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC08 - IGM049705

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:16:09

Point Information

| | | |
|----------------------|------------------------|-------------------------|
| | Reference: IC08 | Rover: IGM049705 |
| Receiver type / S/N: | TOPCON / 8 | Unknown / - |
| Antenna type / S/N: | GR3 / - | GS16 Pole / - |
| Antenna height: | 1.2660 m | 1.1800 m |
| Initial coordinates: | | |
| Latitude: | 45° 27' 17.54945" N | 45° 27' 30.28481" N |
| Longitude: | 11° 25' 41.60781" E | 11° 23' 23.17530" E |
| Ellip. Hgt: | 97.0534 m | 114.0676 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC08 | Rover:IGM049705 | |
|----------------|-----------------------|------------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 27' 17.54945" N | 45° 27' 30.28481" N | |
| Longitude: | 11° 25' 41.60781" E | 11° 23' 23.17530" E | |
| Ellip. Hgt: | 97.0534 m | 114.0676 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IC09 - CS05

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:55:04

Point Information

| | Reference: IC09 | Rover: CS05 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | Unknown / - | TOPCON / 8 |
| Antenna type / S/N: | GS16 Pole / - | GR3 / - |
| Antenna height: | 1.1210 m | 1.2070 m |
| Initial coordinates: | | |
| Latitude: | 45° 30' 40.52732" N | 45° 29' 56.62471" N |
| Longitude: | 11° 25' 24.18464" E | 11° 30' 19.94590" E |
| Ellip. Hgt: | 115.2344 m | 85.0480 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC09 | Rover:CS05 | |
|----------------|---|--|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 30' 40.52732" N | 45° 29' 56.62473" N | |
| Longitude: | 11° 25' 24.18464" E | 11° 30' 19.94589" E | |
| Ellip. Hgt: | 115.2344 m | 85.0576 m | |
| Solution type: | GPS fix, GLONASS float | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0002 m Posn. Qlty: 0.0002 m | Sd. Lon: 0.0001 m Sd. Slope: 0.0001 m | Sd. Hgt: 0.0004 m |



Results - Baseline IC09 - CS06

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:55:01

Point Information

| | Reference: IC09 | Rover: CS06 |
|----------------------|---------------------|---------------------|
| Receiver type / S/N: | Unknown / - | GS15 / 1510280 |
| Antenna type / S/N: | GS16 Pole / - | GS15 Pole / - |
| Antenna height: | 1.1210 m | 1.0610 m |
| Initial coordinates: | | |
| Latitude: | 45° 30' 40.52732" N | 45° 32' 29.42583" N |
| Longitude: | 11° 25' 24.18464" E | 11° 29' 12.66144" E |
| Ellip. Hgt: | 115.2344 m | 88.9799 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IC09 | Rover:CS06 |
|----------------|------------------------|--|
| Coordinates: | | |
| Latitude: | 45° 30' 40.52732" N | 45° 32' 29.42583" N |
| Longitude: | 11° 25' 24.18464" E | 11° 29' 12.66144" E |
| Ellip. Hgt: | 115.2344 m | 88.9801 m |
| Solution type: | GPS fix, GLONASS float | |
| GNSS type: | GPS / GLONASS | |
| Frequency: | L1 and L2 | |
| Ambiguity: | Yes | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m |



Results - Baseline IGM049702 - CS01

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:40:45

Point Information

| | | |
|----------------------|-----------------------------|---------------------|
| | Reference: IGM049702 | Rover: CS01 |
| Receiver type / S/N: | TOPCON / 89 | Unknown / - |
| Antenna type / S/N: | GR3 / - | GS16 Pole / - |
| Antenna height: | 1.2710 m | 0.9480 m |
| Initial coordinates: | | |
| Latitude: | 45° 25' 10.14179" N | 45° 24' 17.76588" N |
| Longitude: | 11° 08' 08.17503" E | 11° 05' 10.91872" E |
| Ellip. Hgt: | 99.5317 m | 98.5777 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|----------------------------|---------------------|-------------------|
| | Reference:IGM049702 | Rover:CS01 | |
| Coordinates: | | | |
| Latitude: | 45° 25' 10.14179" N | 45° 24' 17.76572" N | |
| Longitude: | 11° 08' 08.17503" E | 11° 05' 10.91905" E | |
| Ellip. Hgt: | 99.5317 m | 98.5810 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IGM049702 - CS02

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:50:03

Point Information

| | | |
|----------------------|--|--------------------------------------|
| Receiver type / S/N: | Reference: IGM049702 TOPCON / 89 | Rover: CS02 GS15 / 1510280 |
| Antenna type / S/N: | GR3 / - | GS15 Pole / - |
| Antenna height: | 1.2540 m | 1.3500 m |
| Initial coordinates: | | |
| Latitude: | 45° 25' 10.14179" N | 45° 23' 36.52093" N |
| Longitude: | 11° 08' 08.17503" E | 11° 09' 35.48722" E |
| Ellip. Hgt: | 99.5317 m | 81.8924 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|----------------------------|---------------------|-------------------|
| | Reference:IGM049702 | Rover:CS02 | |
| Coordinates: | | | |
| Latitude: | 45° 25' 10.14179" N | 45° 23' 36.52093" N | |
| Longitude: | 11° 08' 08.17503" E | 11° 09' 35.48722" E | |
| Ellip. Hgt: | 99.5317 m | 81.8924 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IGM049702 - IGM049703

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:42:31

Point Information

| | Reference: IGM049702 | Rover: IGM049703 |
|----------------------|-----------------------------|-------------------------|
| Receiver type / S/N: | TOPCON / 89 | TOPCON / 8 |
| Antenna type / S/N: | GR3 / - | GR3 / - |
| Antenna height: | 1.2710 m | 1.1070 m |
| Initial coordinates: | | |
| Latitude: | 45° 25' 10.14179" N | 45° 24' 36.24477" N |
| Longitude: | 11° 08' 08.17503" E | 11° 12' 51.17810" E |
| Ellip. Hgt: | 99.5317 m | 84.5263 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IGM049702 | Rover:IGM049703 | |
|----------------|----------------------|---------------------|-------------------|
| Coordinates: | | | |
| Latitude: | 45° 25' 10.14179" N | 45° 24' 36.24477" N | |
| Longitude: | 11° 08' 08.17503" E | 11° 12' 51.17810" E | |
| Ellip. Hgt: | 99.5317 m | 84.5264 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |

Processing Errors and Warnings

Error Orbit: No valid ephemeris for satellite coordinate calculation R01 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R02 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R03 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R11 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R12 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R18 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R01 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R02 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R03 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R11 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R12 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.

Error Orbit: No valid ephemeris for satellite coordinate calculation R18 between 10/25/2020 12:59:42 and 10/25/2020 13:29:42.



Results - Baseline IGM049703 - CS01

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:45:42

Point Information

| | | |
|----------------------|---|-----------------------------------|
| Receiver type / S/N: | Reference: IGM049703 TOPCON / 8 | Rover: CS01 Unknown / - |
| Antenna type / S/N: | GR3 / - | GS16 Pole / - |
| Antenna height: | 1.1070 m | 0.9480 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 36.24477" N | 45° 24' 17.76588" N |
| Longitude: | 11° 12' 51.17810" E | 11° 05' 10.91872" E |
| Ellip. Hgt: | 84.5263 m | 98.5777 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|----------------------------|---------------------|-------------------|
| | Reference:IGM049703 | Rover:CS01 | |
| Coordinates: | | | |
| Latitude: | 45° 24' 36.24477" N | 45° 24' 17.76573" N | |
| Longitude: | 11° 12' 51.17810" E | 11° 05' 10.91904" E | |
| Ellip. Hgt: | 84.5263 m | 98.5832 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IGM049703 - IC03

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:45:45

Point Information

| | | |
|----------------------|---|----------------------------------|
| Receiver type / S/N: | Reference: IGM049703 TOPCON / 8 | Rover: IC03 TOPCON / 8 |
| Antenna type / S/N: | GR3 / - | GR3 / - |
| Antenna height: | 1.1070 m | 1.4710 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 36.24477" N | 45° 22' 08.87291" N |
| Longitude: | 11° 12' 51.17810" E | 11° 11' 27.30460" E |
| Ellip. Hgt: | 84.5263 m | 84.7677 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|----------------------------|---------------------|-------------------|
| | Reference:IGM049703 | Rover:IC03 | |
| Coordinates: | | | |
| Latitude: | 45° 24' 36.24477" N | 45° 22' 08.87299" N | |
| Longitude: | 11° 12' 51.17810" E | 11° 11' 27.30466" E | |
| Ellip. Hgt: | 84.5263 m | 84.7820 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IGM049703 - IC05

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:56:10

Point Information

| | | |
|----------------------|---|----------------------------------|
| Receiver type / S/N: | Reference: IGM049703 TOPCON / 8 | Rover: IC05 TOPCON / 8 |
| Antenna type / S/N: | GR3 / - | GR3 / - |
| Antenna height: | 1.1520 m | 1.0830 m |
| Initial coordinates: | | |
| Latitude: | 45° 24' 36.24477" N | 45° 24' 31.56630" N |
| Longitude: | 11° 12' 51.17810" E | 11° 16' 59.00798" E |
| Ellip. Hgt: | 84.5263 m | 86.2862 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|----------------------------|---------------------|-------------------|
| | Reference:IGM049703 | Rover:IC05 | |
| Coordinates: | | | |
| Latitude: | 45° 24' 36.24477" N | 45° 24' 31.56632" N | |
| Longitude: | 11° 12' 51.17810" E | 11° 16' 59.00799" E | |
| Ellip. Hgt: | 84.5263 m | 86.2878 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IGM049705 - CS05

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:21:45

Point Information

| | Reference: IGM049705 | Rover: CS05 |
|----------------------|----------------------|---------------------|
| Receiver type / S/N: | TOPCON / 8 | TOPCON / 8 |
| Antenna type / S/N: | GR3 / - | GR3 / - |
| Antenna height: | 1.3960 m | 1.2070 m |
| Initial coordinates: | | |
| Latitude: | 45° 27' 30.28481" N | 45° 29' 56.62471" N |
| Longitude: | 11° 23' 23.17530" E | 11° 30' 19.94590" E |
| Ellip. Hgt: | 114.0676 m | 85.0480 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | Reference:IGM049705 | Rover:CS05 |
|----------------|----------------------------|--|
| Coordinates: | | |
| Latitude: | 45° 27' 30.28481" N | 45° 29' 56.62456" N |
| Longitude: | 11° 23' 23.17530" E | 11° 30' 19.94588" E |
| Ellip. Hgt: | 114.0676 m | 85.0401 m |
| Solution type: | Phase: all fix | |
| GNSS type: | GPS / GLONASS | |
| Frequency: | L1 and L2 | |
| Ambiguity: | Yes | |
| Quality: | Sd. Lat: 0.0002 m | Sd. Lon: 0.0001 m Sd. Hgt: 0.0004 m |
| | Posn. Qlty: 0.0002 m | Sd. Slope: 0.0001 m |



Results - Baseline IGM049705 - IC09

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 11:21:42

Point Information

| | | |
|----------------------|---|-----------------------------------|
| Receiver type / S/N: | Reference: IGM049705 TOPCON / 8 | Rover: IC09 Unknown / - |
| Antenna type / S/N: | GR3 / - | GS16 Pole / - |
| Antenna height: | 1.3960 m | 1.1410 m |
| Initial coordinates: | | |
| Latitude: | 45° 27' 30.28481" N | 45° 30' 40.52732" N |
| Longitude: | 11° 23' 23.17530" E | 11° 25' 24.18464" E |
| Ellip. Hgt: | 114.0676 m | 115.2344 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|----------------------------|---------------------|-------------------|
| | Reference:IGM049705 | Rover:IC09 | |
| Coordinates: | | | |
| Latitude: | 45° 27' 30.28481" N | 45° 30' 40.52732" N | |
| Longitude: | 11° 23' 23.17530" E | 11° 25' 24.18464" E | |
| Ellip. Hgt: | 114.0676 m | 115.2345 m | |
| Solution type: | Phase: all fix | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IGM049903 - IC01

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:32:08

Point Information

| | | |
|----------------------|-----------------------------|---------------------|
| | Reference: IGM049903 | Rover: IC01 |
| Receiver type / S/N: | Unknown / - | GS15 / 1510292 |
| Antenna type / S/N: | GS16 Pole / - | GS15 Pole / - |
| Antenna height: | 1.1950 m | 1.2370 m |
| Initial coordinates: | | |
| Latitude: | 45° 26' 33.23709" N | 45° 27' 19.13442" N |
| Longitude: | 11° 00' 07.60936" E | 11° 02' 07.50828" E |
| Ellip. Hgt: | 113.0488 m | 120.1302 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|----------------------------|---------------------|-------------------|
| | Reference:IGM049903 | Rover:IC01 | |
| Coordinates: | | | |
| Latitude: | 45° 26' 33.23709" N | 45° 27' 19.13442" N | |
| Longitude: | 11° 00' 07.60936" E | 11° 02' 07.50828" E | |
| Ellip. Hgt: | 113.0488 m | 120.1302 m | |
| Solution type: | GPS fix, GLONASS float | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Results - Baseline IGM049903 - IC02

Project Information

Project name: IRICAV2-ELAB-COMP-BASE
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Application software: LEICA Geo Office 8.4
 Processing kernel: PSI-Pro 4.0
 Processed: 01/07/2021 10:32:11

Point Information

| | | |
|----------------------|-----------------------------|---------------------|
| | Reference: IGM049903 | Rover: IC02 |
| Receiver type / S/N: | Unknown / - | GS15 / 1510280 |
| Antenna type / S/N: | GS16 Pole / - | GS15 Pole / - |
| Antenna height: | 1.1950 m | 0.9650 m |
| Initial coordinates: | | |
| Latitude: | 45° 26' 33.23709" N | 45° 25' 26.29774" N |
| Longitude: | 11° 00' 07.60936" E | 11° 01' 25.21191" E |
| Ellip. Hgt: | 113.0488 m | 105.0081 m |

Processing Parameters

| Parameters | Selected | Used | Comment |
|--|-----------|----------------|---------|
| Cut-off angle: | 15° | 15° | |
| Ephemeris type (GPS): | Broadcast | Broadcast | |
| Ephemeris type (GLONASS): | Broadcast | Broadcast | |
| Solution type: | Automatic | Phase: all fix | |
| GNSS type: | Automatic | GPS / GLONASS | |
| Frequency: | Automatic | L1 and L2 | |
| Fix ambiguities up to: | 80 km | 80 km | |
| Min. duration for float solution (static): | 5' 00" | 5' 00" | |
| Sampling rate: | Use all | 10 | |
| Tropospheric model: | Hopfield | Hopfield | |
| Ionospheric model: | Automatic | Computed | |
| Use stochastic modelling: | Yes | Yes | |
| Min. distance: | 8 km | 8 km | |
| Ionospheric activity: | Automatic | Automatic | |

Satellite Selection

Manually disabled GPS satellites (PRNs): None
 Manually disabled GLONASS satellites (Slot Id): None
 Manually disabled Galileo

satellites: None
 Manually disabled Beidou satellites: None

Final Coordinates

| | | | |
|----------------|----------------------------|---------------------|-------------------|
| | Reference:IGM049903 | Rover:IC02 | |
| Coordinates: | | | |
| Latitude: | 45° 26' 33.23709" N | 45° 25' 26.29774" N | |
| Longitude: | 11° 00' 07.60936" E | 11° 01' 25.21191" E | |
| Ellip. Hgt: | 113.0488 m | 105.0081 m | |
| Solution type: | GPS fix, GLONASS float | | |
| GNSS type: | GPS / GLONASS | | |
| Frequency: | L1 and L2 | | |
| Ambiguity: | Yes | | |
| Quality: | Sd. Lat: 0.0001 m | Sd. Lon: 0.0001 m | Sd. Hgt: 0.0002 m |
| | Posn. Qlty: 0.0001 m | Sd. Slope: 0.0001 m | |



Network Adjustment

www.MOVE3.com

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Created: 01/07/2021 10:24:06

Project Information

Project name: IRICAV2-ELAB-COMP
 Date created: 10/24/2020 17:34:58
 Time zone: 1h 00'
 Coordinate system name: VR-PD
 Projection: VR-PD
 Projection type: Lambert
 Application software: LEICA Geo Office 8.4
 Processing kernel: MOVE3 4.1

General Information

Adjustment

Type: Constrained
 Dimension: 3D
 Coordinate system: WGS 1984
 Height mode: Ellipsoidal

Number of iterations: 1
 Maximum coord correction in last iteration: 0.0000 m ✓ (tolerance is met)

Stations

Number of (partly) known stations: 3
 Number of unknown stations: 16
 Total: 19

Observations

GPS coordinate differences: 120 (40 baselines)
 Known coordinates: 9
 Total: 129

Unknowns

Coordinates: 57
 Total: 57

Degrees of freedom: 72

Testing

Alfa (multi dimensional): 0.5940
 Alfa 0 (one dimensional): 5.0 %
 Beta: 80.0 %
 Sigma a-priori (GPS): 10.0

Critical value W-test: 1.96
 Critical value T-test (2-dimensional): 2.42
 Critical value T-test (3-dimensional): 1.89
 Critical value F-test: 0.95
 F-test: 9.63 ⚠ (rejected)

Results based on a-posteriori variance factor

Adjustment Results

Coordinates

| Station | Coordinate | Corr | Sd |
|---------|------------|------|----|
|---------|------------|------|----|

| | | | | | |
|-----------|-----------|---------------------|-----------|----------|-------|
| CS01 | Latitude | 45° 24' 17.80601" N | 1.2387 m | 0.0015 m | |
| | Longitude | 11° 05' 10.92742" E | 0.1892 m | 0.0012 m | |
| | Height | 90.6348 m | -7.9430 m | 0.0030 m | |
| CS02 | Latitude | 45° 23' 36.56106" N | 1.2388 m | 0.0016 m | |
| | Longitude | 11° 09' 35.49620" E | 0.1952 m | 0.0012 m | |
| | Height | 73.9489 m | -7.9435 m | 0.0034 m | |
| CS04 | Latitude | 45° 26' 10.07566" N | 1.2524 m | 0.0019 m | |
| | Longitude | 11° 24' 40.27948" E | 0.2187 m | 0.0016 m | |
| | Height | 88.9082 m | -7.9427 m | 0.0041 m | |
| CS05 | Latitude | 45° 29' 56.66569" N | 1.2653 m | 0.0029 m | |
| | Longitude | 11° 30' 19.95641" E | 0.2283 m | 0.0023 m | |
| | Height | 77.1105 m | -7.9375 m | 0.0059 m | |
| CS06 | Latitude | 45° 32' 29.46702" N | 1.2714 m | 0.0033 m | |
| | Longitude | 11° 29' 12.67187" E | 0.2264 m | 0.0025 m | |
| | Height | 81.0419 m | -7.9380 m | 0.0067 m | |
| IC01 | Latitude | 45° 27' 19.17483" N | 1.2476 m | 0.0019 m | |
| | Longitude | 11° 02' 07.51671" E | 0.1831 m | 0.0015 m | |
| | Height | 112.1803 m | -7.9499 m | 0.0040 m | |
| IC02 | Latitude | 45° 25' 26.33800" N | 1.2428 m | 0.0017 m | |
| | Longitude | 11° 01' 25.22018" E | 0.1797 m | 0.0013 m | |
| | Height | 97.0632 m | -7.9449 m | 0.0035 m | |
| IC03 | Latitude | 45° 22' 08.91289" N | 1.2343 m | 0.0014 m | |
| | Longitude | 11° 11' 27.31372" E | 0.1986 m | 0.0012 m | |
| | Height | 76.8226 m | -7.9451 m | 0.0030 m | |
| IC04 | Latitude | 45° 22' 05.28811" N | 1.2392 m | 0.0018 m | |
| | Longitude | 11° 18' 24.31719" E | 0.2088 m | 0.0014 m | |
| | Height | 73.5623 m | -7.9485 m | 0.0038 m | |
| IC05 | Latitude | 45° 24' 31.60656" N | 1.2427 m | 0.0016 m | |
| | Longitude | 11° 16' 59.01755" E | 0.2079 m | 0.0013 m | |
| | Height | 78.3394 m | -7.9469 m | 0.0034 m | |
| IC06 | Latitude | 45° 24' 05.75653" N | 1.2474 m | 0.0015 m | |
| | Longitude | 11° 22' 12.67525" E | 0.2139 m | 0.0012 m | |
| | Height | 73.8659 m | -7.9439 m | 0.0032 m | |
| IC07 | Latitude | 45° 26' 19.22623" N | 1.2519 m | 0.0014 m | |
| | Longitude | 11° 21' 07.32497" E | 0.2128 m | 0.0012 m | |
| | Height | 84.2422 m | -7.9451 m | 0.0031 m | |
| IC08 | Latitude | 45° 27' 17.59014" N | 1.2564 m | 0.0017 m | |
| | Longitude | 11° 25' 41.61793" E | 0.2200 m | 0.0014 m | |
| | Height | 89.1136 m | -7.9398 m | 0.0036 m | |
| IC09 | Latitude | 45° 30' 40.56836" N | 1.2672 m | 0.0024 m | |
| | Longitude | 11° 25' 24.19473" E | 0.2190 m | 0.0019 m | |
| | Height | 107.2977 m | -7.9367 m | 0.0052 m | |
| IGM049702 | Latitude | 45° 25' 10.18210" N | 0.0000 m | - | fixed |
| | Longitude | 11° 08' 08.18380" E | 0.0000 m | - | fixed |
| | Height | 91.5820 m | 0.0000 m | - | fixed |
| IGM049703 | Latitude | 45° 24' 36.28480" N | 0.0000 m | - | fixed |
| | Longitude | 11° 12' 51.18740" E | 0.0000 m | - | fixed |
| | Height | 76.5770 m | 0.0000 m | - | fixed |
| IGM049705 | Latitude | 45° 27' 30.32560" N | 0.0000 m | - | fixed |
| | Longitude | 11° 23' 23.18520" E | 0.0000 m | - | fixed |
| | Height | 106.1310 m | 0.0000 m | - | fixed |
| IGM049903 | Latitude | 45° 26' 33.27743" N | 1.2456 m | 0.0028 m | |
| | Longitude | 11° 00' 07.61756" E | 0.1782 m | 0.0022 m | |
| | Height | 105.1017 m | -7.9471 m | 0.0059 m | |
| RL38 | Latitude | 45° 23' 12.62344" N | 1.2390 m | 0.0022 m | |
| | Longitude | 11° 16' 50.74254" E | 0.2077 m | 0.0017 m | |
| | Height | 72.5107 m | -7.9463 m | 0.0048 m | |

Observations and Residuals

| | Station | Target | Adj obs | Resid | Resid (ENH) | Sd |
|-----------|-----------|-----------|--------------|-----------|-------------|----------|
| DX | IGM049702 | IGM049703 | -471.7274 m | 0.0010 m | 0.0006 m | 0.0029 m |
| DY | | | 6179.2436 m | 0.0008 m | 0.0029 m | 0.0014 m |
| DZ | | | -745.2967 m | 0.0053 m | 0.0046 m | 0.0028 m |
| DX | IC07 | IGM049705 | -2100.5527 m | 0.0064 m | 0.0016 m | 0.0025 m |
| DY | | | 2589.0071 m | 0.0029 m | -0.0052 m | 0.0012 m |
| DZ | | | 1555.5268 m | -0.0004 m | 0.0045 m | 0.0024 m |
| DX | IC08 | IGM049705 | 331.9886 m | -0.0007 m | 0.0006 m | 0.0029 m |
| DY | | | -3001.4422 m | 0.0005 m | -0.0023 m | 0.0014 m |
| DZ | | | 287.9244 m | -0.0038 m | -0.0031 m | 0.0027 m |
| DX | IC06 | IGM049705 | -4690.9737 m | -0.0028 m | 0.0018 m | 0.0026 m |
| DY | | | 619.3050 m | 0.0013 m | -0.0015 m | 0.0012 m |

| | | | | | | |
|----|-----------|-----------|--------------|-----------|-----------|----------|
| DZ | | | 4455.1480 m | -0.0047 m | -0.0051 m | 0.0025 m |
| DX | CS02 | IGM049703 | -2111.8506 m | 0.0033 m | -0.0011 m | 0.0029 m |
| DY | | | 3920.7703 m | -0.0005 m | 0.0014 m | 0.0013 m |
| DZ | | | 1296.4744 m | 0.0052 m | 0.0058 m | 0.0028 m |
| DX | IGM049705 | CS05 | -4973.6675 m | -0.0044 m | -0.0003 m | 0.0048 m |
| DY | | | 8228.4288 m | -0.0012 m | 0.0027 m | 0.0023 m |
| DZ | | | 3147.1801 m | -0.0008 m | -0.0038 m | 0.0045 m |
| DX | IGM049703 | IC05 | -949.1669 m | 0.0032 m | 0.0018 m | 0.0027 m |
| DY | | | 5305.9971 m | 0.0025 m | -0.0063 m | 0.0013 m |
| DZ | | | -100.1395 m | -0.0053 m | -0.0012 m | 0.0026 m |
| DX | IGM049703 | IC03 | 3531.8677 m | 0.0056 m | 0.0017 m | 0.0025 m |
| DY | | | -1160.4672 m | 0.0028 m | -0.0005 m | 0.0012 m |
| DZ | | | -3195.0179 m | 0.0055 m | 0.0081 m | 0.0024 m |
| DX | IC04 | RL38 | -1052.9334 m | 0.0008 m | -0.0008 m | 0.0037 m |
| DY | | | -2286.4644 m | -0.0006 m | 0.0005 m | 0.0017 m |
| DZ | | | 1459.4683 m | 0.0014 m | 0.0015 m | 0.0037 m |
| DX | IC04 | IC07 | -6162.6999 m | 0.0056 m | -0.0007 m | 0.0028 m |
| DY | | | 2380.8167 m | 0.0004 m | 0.0029 m | 0.0013 m |
| DZ | | | 5511.9472 m | 0.0098 m | 0.0109 m | 0.0027 m |
| DX | IC04 | IC05 | -2786.7239 m | 0.0003 m | -0.0012 m | 0.0030 m |
| DY | | | -2448.8126 m | -0.0012 m | 0.0013 m | 0.0014 m |
| DZ | | | 3175.8171 m | 0.0019 m | 0.0014 m | 0.0028 m |
| DX | CS05 | IC08 | 4641.6789 m | 0.0006 m | -0.0005 m | 0.0049 m |
| DY | | | -5226.9866 m | -0.0004 m | -0.0001 m | 0.0024 m |
| DZ | | | -3435.1045 m | 0.0004 m | 0.0006 m | 0.0046 m |
| DX | CS04 | IC08 | -1719.6614 m | -0.0009 m | 0.0007 m | 0.0031 m |
| DY | | | 1012.5573 m | 0.0005 m | -0.0020 m | 0.0015 m |
| DZ | | | 1462.5071 m | -0.0037 m | -0.0032 m | 0.0029 m |
| DX | CS06 | CS05 | 3004.6356 m | 0.0040 m | -0.0003 m | 0.0054 m |
| DY | | | 2101.2674 m | 0.0005 m | -0.0003 m | 0.0026 m |
| DZ | | | -3308.1226 m | 0.0036 m | 0.0054 m | 0.0051 m |
| DX | IC09 | CS05 | -349.3617 m | -0.0008 m | 0.0013 m | 0.0051 m |
| DY | | | 6480.5191 m | 0.0011 m | -0.0054 m | 0.0025 m |
| DZ | | | -971.4669 m | -0.0083 m | -0.0063 m | 0.0049 m |
| DX | IC06 | IC08 | -5022.9622 m | -0.0001 m | 0.0005 m | 0.0031 m |
| DY | | | 3620.7472 m | 0.0005 m | -0.0008 m | 0.0015 m |
| DZ | | | 4167.2236 m | -0.0011 m | -0.0008 m | 0.0029 m |
| DX | IC06 | IC07 | -2590.4210 m | 0.0004 m | 0.0006 m | 0.0020 m |
| DY | | | -1969.7021 m | 0.0006 m | -0.0007 m | 0.0010 m |
| DZ | | | 2899.6211 m | -0.0005 m | 0.0000 m | 0.0019 m |
| DX | IC03 | IC05 | -4481.0346 m | 0.0039 m | 0.0014 m | 0.0030 m |
| DY | | | 6466.4643 m | 0.0022 m | -0.0045 m | 0.0014 m |
| DZ | | | 3094.8784 m | -0.0020 m | 0.0015 m | 0.0028 m |
| DX | IC05 | RL38 | 1733.7906 m | 0.0040 m | 0.0008 m | 0.0034 m |
| DY | | | 162.3482 m | 0.0016 m | -0.0009 m | 0.0016 m |
| DZ | | | -1716.3488 m | 0.0030 m | 0.0051 m | 0.0035 m |
| DX | IC05 | IC07 | -3375.9760 m | 0.0023 m | 0.0006 m | 0.0027 m |
| DY | | | 4829.6293 m | 0.0011 m | -0.0047 m | 0.0013 m |
| DZ | | | 2336.1302 m | -0.0042 m | -0.0013 m | 0.0025 m |
| DX | IC01 | IGM049702 | 1262.9979 m | 0.0048 m | 0.0057 m | 0.0032 m |
| DY | | | 8235.5912 m | 0.0068 m | -0.0033 m | 0.0015 m |
| DZ | | | -2809.0553 m | 0.0015 m | 0.0053 m | 0.0030 m |
| DX | CS02 | IC03 | 1420.0172 m | -0.0029 m | 0.0009 m | 0.0028 m |
| DY | | | 2760.3031 m | 0.0003 m | -0.0011 m | 0.0013 m |
| DZ | | | -1898.5436 m | -0.0044 m | -0.0051 m | 0.0027 m |
| DX | IC02 | IGM049702 | -1338.7156 m | 0.0001 m | -0.0012 m | 0.0028 m |
| DY | | | 8665.0540 m | -0.0012 m | -0.0004 m | 0.0014 m |
| DZ | | | -353.9863 m | -0.0008 m | -0.0007 m | 0.0026 m |
| DX | CS01 | IC03 | 1188.0253 m | -0.0034 m | -0.0008 m | 0.0035 m |
| DY | | | 8579.1054 m | -0.0015 m | -0.0032 m | 0.0017 m |
| DZ | | | -2804.5127 m | -0.0082 m | -0.0084 m | 0.0033 m |
| DX | IGM049705 | IC09 | -4624.3058 m | 0.0015 m | -0.0001 m | 0.0041 m |
| DY | | | 1747.9097 m | 0.0002 m | -0.0007 m | 0.0019 m |
| DZ | | | 4118.6470 m | 0.0005 m | 0.0014 m | 0.0040 m |
| DX | IGM049702 | CS02 | 1640.1231 m | -0.0019 m | 0.0003 m | 0.0033 m |
| DY | | | 2258.4733 m | 0.0000 m | -0.0007 m | 0.0015 m |
| DZ | | | -2041.7710 m | -0.0029 m | -0.0034 m | 0.0032 m |
| DX | IGM049703 | CS01 | 2343.8424 m | -0.0018 m | 0.0010 m | 0.0032 m |
| DY | | | -9739.5727 m | 0.0006 m | -0.0007 m | 0.0015 m |
| DZ | | | -390.5052 m | -0.0026 m | -0.0030 m | 0.0030 m |
| DX | IC07 | CS04 | -712.8798 m | -0.0010 m | 0.0008 m | 0.0029 m |
| DY | | | 4577.8920 m | 0.0006 m | -0.0011 m | 0.0014 m |

| | | | | | | |
|-----------|-----------|------|--------------|-----------|-----------|----------|
| | | | -194.9046 m | -0.0024 m | -0.0023 m | 0.0027 m |
| DX | IC04 | IC06 | -3572.2789 m | -0.0001 m | 0.0023 m | 0.0028 m |
| DY | | | 4350.5188 m | 0.0023 m | -0.0039 m | 0.0013 m |
| DZ | | | 2612.3261 m | -0.0052 m | -0.0034 m | 0.0026 m |
| DX | IC09 | CS06 | -3353.9973 m | 0.0016 m | -0.0002 m | 0.0043 m |
| DY | | | 4379.2517 m | 0.0001 m | -0.0002 m | 0.0020 m |
| DZ | | | 2336.6557 m | 0.0013 m | 0.0021 m | 0.0038 m |
| DX | IC06 | CS04 | -3303.3008 m | -0.0003 m | 0.0001 m | 0.0029 m |
| DY | | | 2608.1899 m | 0.0001 m | -0.0014 m | 0.0014 m |
| DZ | | | 2704.7165 m | -0.0023 m | -0.0018 m | 0.0028 m |
| DX | IC03 | IC04 | -1694.3107 m | 0.0064 m | 0.0032 m | 0.0033 m |
| DY | | | 8915.2769 m | 0.0046 m | -0.0057 m | 0.0015 m |
| DZ | | | -80.9387 m | -0.0009 m | 0.0043 m | 0.0031 m |
| DX | IGM049903 | IC02 | 1117.4374 m | -0.0020 m | 0.0009 m | 0.0040 m |
| DY | | | 1935.9284 m | 0.0006 m | 0.0001 m | 0.0019 m |
| DZ | | | -1455.9460 m | -0.0017 m | -0.0025 m | 0.0037 m |
| DX | IGM049903 | IC01 | -1484.2761 m | 0.0025 m | -0.0012 m | 0.0041 m |
| DY | | | 2365.3912 m | -0.0007 m | -0.0002 m | 0.0019 m |
| DZ | | | 999.1230 m | 0.0021 m | 0.0031 m | 0.0038 m |
| DX | IC01 | IC02 | 2601.7136 m | -0.0002 m | -0.0015 m | 0.0021 m |
| DY | | | -429.4628 m | -0.0016 m | 0.0003 m | 0.0010 m |
| DZ | | | -2455.0690 m | -0.0001 m | -0.0005 m | 0.0020 m |
| DX | IC02 | CS01 | 533.3994 m | -0.0013 m | -0.0020 m | 0.0027 m |
| DY | | | 5104.7250 m | -0.0022 m | 0.0009 m | 0.0013 m |
| DZ | | | -1489.7882 m | -0.0005 m | -0.0015 m | 0.0025 m |
| DX | IC03 | RL38 | -2747.2440 m | -0.0096 m | 0.0021 m | 0.0035 m |
| DY | | | 6628.8125 m | 0.0002 m | 0.0040 m | 0.0017 m |
| DZ | | | 1378.5296 m | -0.0038 m | -0.0093 m | 0.0036 m |
| DX | IC03 | RL38 | -2747.2440 m | -0.0036 m | -0.0013 m | 0.0035 m |
| DY | | | 6628.8125 m | -0.0021 m | -0.0010 m | 0.0017 m |
| DZ | | | 1378.5296 m | -0.0055 m | -0.0067 m | 0.0036 m |
| DX | IGM049702 | CS01 | 1872.1150 m | -0.0005 m | 0.0038 m | 0.0026 m |
| DY | | | -3560.3291 m | 0.0038 m | -0.0024 m | 0.0013 m |
| DZ | | | -1135.8018 m | -0.0032 m | -0.0021 m | 0.0024 m |
| DX | IGM049702 | CS01 | 1872.1150 m | 0.0046 m | -0.0004 m | 0.0026 m |
| DY | | | -3560.3291 m | 0.0005 m | -0.0005 m | 0.0013 m |
| DZ | | | -1135.8018 m | 0.0040 m | 0.0061 m | 0.0024 m |

GPS Baseline Vector Residuals

| | Station | Target | Adj vector [m] | Resid [m] | Resid [ppm] |
|----|----------------|---------------|-----------------------|------------------|--------------------|
| DV | IGM049702 | IGM049703 | 6241.8783 | 0.0055 | 0.9 |
| DV | IC07 | IGM049705 | 3678.9867 | 0.0070 | 1.9 |
| DV | IC08 | IGM049705 | 3033.4423 | 0.0039 | 1.3 |
| DV | IC06 | IGM049705 | 6499.0089 | 0.0056 | 0.9 |
| DV | CS02 | IGM049703 | 4638.2323 | 0.0061 | 1.3 |
| DV | IGM049705 | CS05 | 10116.7757 | 0.0046 | 0.5 |
| DV | IGM049703 | IC05 | 5391.1549 | 0.0067 | 1.2 |
| DV | IGM049703 | IC03 | 4901.9296 | 0.0083 | 1.7 |
| DV | IC04 | RL38 | 2909.7484 | 0.0017 | 0.6 |
| DV | IC04 | IC07 | 8603.9944 | 0.0113 | 1.3 |
| DV | IC04 | IC05 | 4883.4749 | 0.0022 | 0.5 |
| DV | CS05 | IC08 | 7788.8712 | 0.0008 | 0.1 |
| DV | CS04 | IC08 | 2474.1533 | 0.0038 | 1.5 |
| DV | CS06 | CS05 | 4938.3028 | 0.0054 | 1.1 |
| DV | IC09 | CS05 | 6562.2351 | 0.0084 | 1.3 |
| DV | IC06 | IC08 | 7463.6259 | 0.0012 | 0.2 |
| DV | IC06 | IC07 | 4358.6477 | 0.0009 | 0.2 |
| DV | IC03 | IC05 | 8454.1767 | 0.0049 | 0.6 |
| DV | IC05 | RL38 | 2445.0439 | 0.0052 | 2.1 |
| DV | IC05 | IC07 | 6338.7725 | 0.0049 | 0.8 |
| DV | IC01 | IGM049702 | 8792.6628 | 0.0084 | 1.0 |
| DV | CS02 | IC03 | 3638.7072 | 0.0053 | 1.5 |
| DV | IC02 | IGM049702 | 8775.0001 | 0.0014 | 0.2 |
| DV | CS01 | IC03 | 9103.7216 | 0.0090 | 1.0 |
| DV | IGM049705 | IC09 | 6434.4888 | 0.0016 | 0.2 |
| DV | IGM049702 | CS02 | 3458.2559 | 0.0035 | 1.0 |
| DV | IGM049703 | CS01 | 10025.2365 | 0.0032 | 0.3 |
| DV | IC07 | CS04 | 4637.1630 | 0.0026 | 0.6 |
| DV | IC04 | IC06 | 6205.8390 | 0.0056 | 0.9 |
| DV | IC09 | CS06 | 5990.5845 | 0.0021 | 0.4 |
| DV | IC06 | CS04 | 5002.9933 | 0.0023 | 0.5 |

| | | | | | |
|----|-----------|------|-----------|--------|-----|
| DV | IC03 | IC04 | 9075.2081 | 0.0079 | 0.9 |
| DV | IGM049903 | IC02 | 2667.6326 | 0.0026 | 1.0 |
| DV | IGM049903 | IC01 | 2965.8722 | 0.0034 | 1.1 |
| DV | IC01 | IC02 | 3602.8760 | 0.0016 | 0.5 |
| DV | IC02 | CS01 | 5344.3616 | 0.0026 | 0.5 |
| DV | IC03 | RL38 | 7306.7674 | 0.0104 | 1.4 |
| DV | IC03 | RL38 | 7306.7674 | 0.0069 | 0.9 |
| DV | IGM049702 | CS01 | 4179.8090 | 0.0050 | 1.2 |
| DV | IGM049702 | CS01 | 4179.8090 | 0.0061 | 1.5 |

Absolute Error Ellipses (2D - 39.4% 1D - 68.3%)

| Station | A [m] | B [m] | A/B | Phi | Sd Hgt [m] |
|-----------|--------|--------|-----|------|------------|
| CS01 | 0.0015 | 0.0012 | 1.2 | 12° | 0.0030 |
| CS02 | 0.0016 | 0.0012 | 1.3 | 2° | 0.0034 |
| CS04 | 0.0019 | 0.0016 | 1.2 | 9° | 0.0041 |
| CS05 | 0.0029 | 0.0022 | 1.3 | 14° | 0.0059 |
| CS06 | 0.0033 | 0.0025 | 1.3 | 12° | 0.0067 |
| IC01 | 0.0019 | 0.0015 | 1.3 | 7° | 0.0040 |
| IC02 | 0.0017 | 0.0013 | 1.2 | 10° | 0.0035 |
| IC03 | 0.0014 | 0.0012 | 1.3 | 8° | 0.0030 |
| IC04 | 0.0018 | 0.0014 | 1.3 | 4° | 0.0038 |
| IC05 | 0.0016 | 0.0012 | 1.3 | 4° | 0.0034 |
| IC06 | 0.0015 | 0.0012 | 1.2 | 3° | 0.0032 |
| IC07 | 0.0014 | 0.0012 | 1.3 | 4° | 0.0031 |
| IC08 | 0.0017 | 0.0014 | 1.2 | 12° | 0.0036 |
| IC09 | 0.0024 | 0.0019 | 1.3 | 1° | 0.0052 |
| IGM049702 | 0.0000 | 0.0000 | 1.0 | -78° | 0.0000 |
| IGM049703 | 0.0000 | 0.0000 | 1.0 | 90° | 0.0000 |
| IGM049705 | 0.0000 | 0.0000 | 1.0 | 0° | 0.0000 |
| IGM049903 | 0.0028 | 0.0022 | 1.3 | -2° | 0.0059 |
| RL38 | 0.0022 | 0.0017 | 1.3 | -2° | 0.0048 |

Testing and Estimated Errors

Coordinate Tests

| Station | | MDB | BNR | W-Test | T-Test |
|-----------|-----------|----------|------|--------|--------|
| IGM049702 | Latitude | 0.0145 m | 1.0 | 0.85 | 0.34 |
| | Longitude | 0.0212 m | 0.5 | -0.44 | |
| | Height | 0.0502 m | 0.6 | -0.29 | |
| IGM049703 | Latitude | 0.0074 m | 28.8 | -4.35 | 8.20 |
| | Longitude | 0.0063 m | 29.3 | 2.43 | |
| | Height | 0.0168 m | 31.2 | -0.43 | |
| IGM049705 | Latitude | 0.0085 m | 35.8 | 4.47 | 8.47 |
| | Longitude | 0.0066 m | 32.9 | -2.38 | |
| | Height | 0.0177 m | 35.6 | 0.55 | |

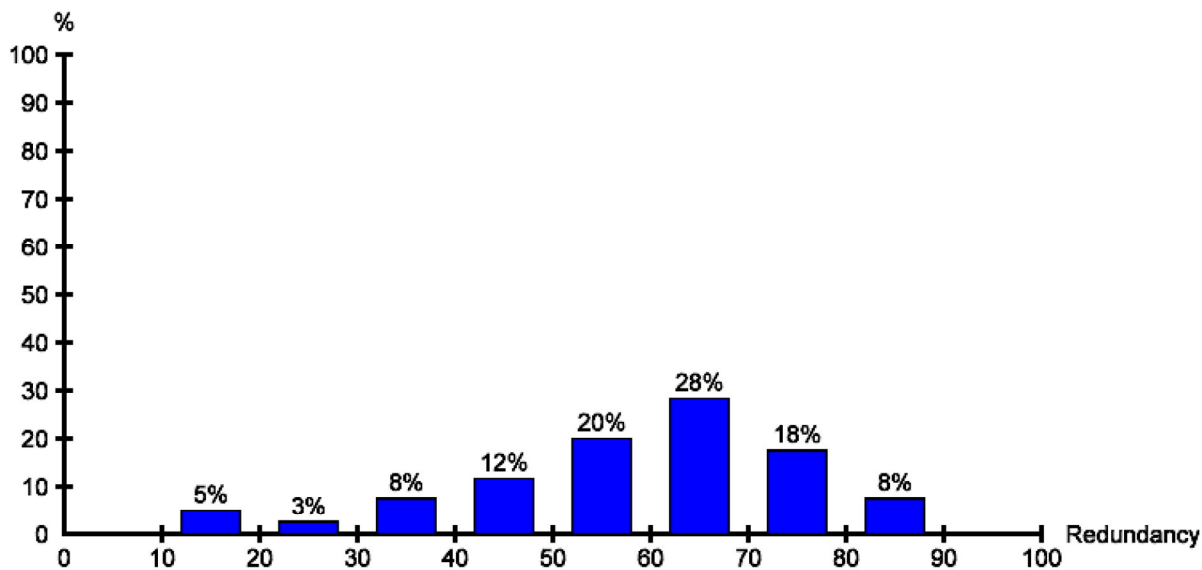
Observation Tests

| | Station | Target | MDB | Red | BNR | W-Test | T-Test |
|-----------|-----------|-----------|----------|-----|-----|--------|--------|
| DX | IGM049702 | IGM049703 | 0.0122 m | 56 | 2.4 | -0.95 | 1.26 |
| DY | | | 0.0078 m | 58 | 2.4 | 0.21 | |
| DZ | | | 0.0118 m | 56 | 2.4 | 1.87 | |
| DX | IC07 | IGM049705 | 0.0110 m | 65 | 2.1 | 2.35 | 2.97 |
| DY | | | 0.0068 m | 64 | 2.1 | 1.53 | |
| DZ | | | 0.0109 m | 68 | 2.0 | -1.73 | |
| DX | IC08 | IGM049705 | 0.0126 m | 48 | 2.9 | 0.84 | 1.17 |
| DY | | | 0.0078 m | 49 | 2.8 | 0.61 | |
| DZ | | | 0.0118 m | 46 | 3.0 | -1.80 | |
| DX | IC06 | IGM049705 | 0.0119 m | 70 | 1.8 | 0.03 | 0.63 |
| DY | | | 0.0073 m | 70 | 1.8 | 0.75 | |
| DZ | | | 0.0117 m | 72 | 1.8 | -0.93 | |
| DX | CS02 | IGM049703 | 0.0124 m | 60 | 2.3 | 0.01 | 0.76 |
| DY | | | 0.0074 m | 58 | 2.3 | -0.44 | |
| DZ | | | 0.0122 m | 62 | 2.2 | 1.12 | |
| DX | IGM049705 | CS05 | 0.0236 m | 71 | 1.7 | -0.65 | 0.18 |
| DY | | | 0.0138 m | 70 | 1.8 | -0.32 | |
| DZ | | | 0.0216 m | 69 | 1.8 | 0.34 | |
| DX | IGM049703 | IC05 | 0.0121 m | 64 | 2.1 | 2.18 | 3.09 |
| DY | | | 0.0072 m | 62 | 2.2 | 1.34 | |

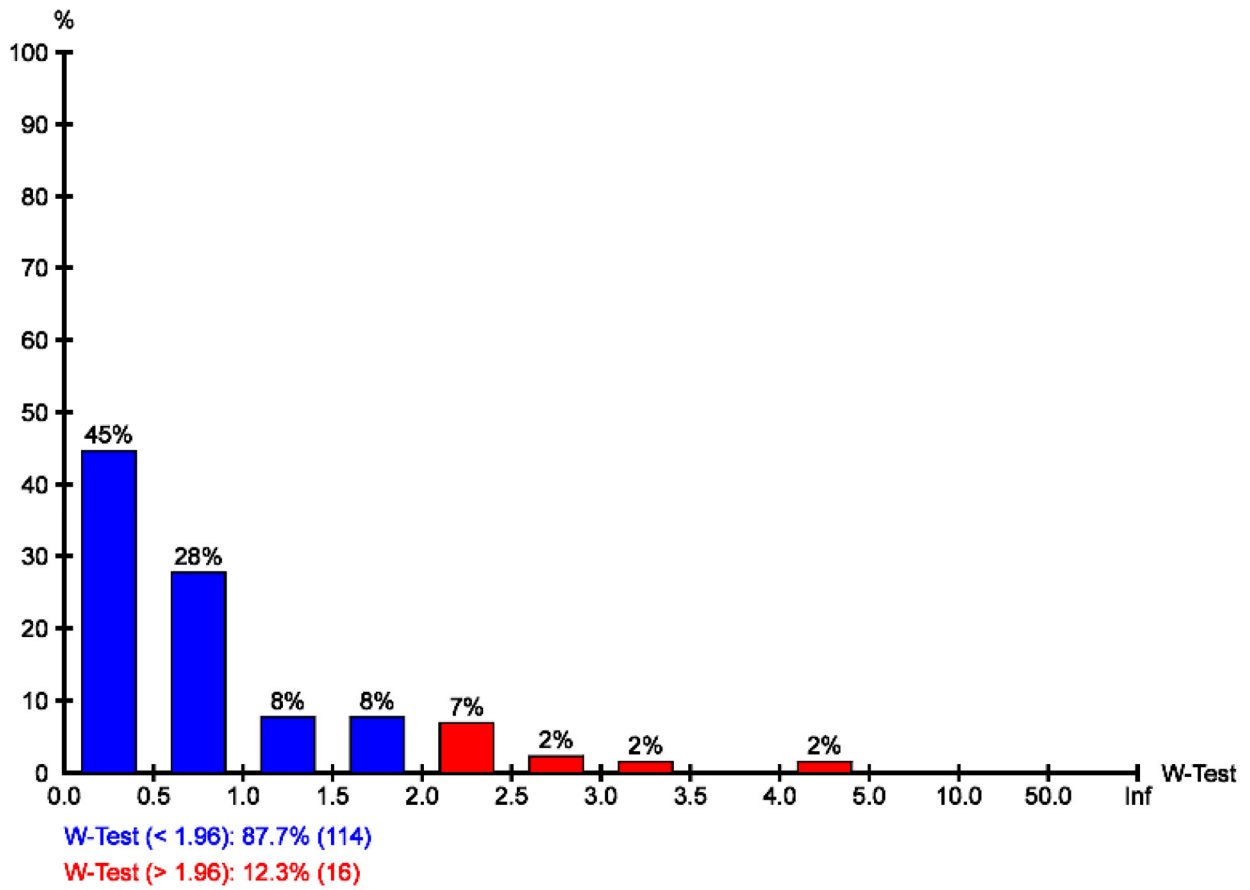
| | | | | | | | | |
|----|-----------|-----------|----------|----|-----|-------|---|------|
| DZ | | | 0.0119 m | 67 | 2.0 | -2.56 | ▲ | |
| DX | IGM049703 | IC03 | 0.0113 m | 62 | 2.1 | 0.72 | | 1.81 |
| DY | | | 0.0070 m | 66 | 2.0 | 1.35 | | |
| DZ | | | 0.0108 m | 63 | 2.1 | 0.69 | | |
| DX | IC04 | RL38 | 0.0159 m | 61 | 2.2 | 0.04 | | 0.06 |
| DY | | | 0.0096 m | 61 | 2.2 | -0.32 | | |
| DZ | | | 0.0167 m | 66 | 2.0 | 0.20 | | |
| DX | IC04 | IC07 | 0.0141 m | 75 | 1.6 | -0.25 | | 1.29 |
| DY | | | 0.0086 m | 75 | 1.6 | 0.06 | | |
| DZ | | | 0.0137 m | 77 | 1.5 | 1.65 | | |
| DX | IC04 | IC05 | 0.0132 m | 64 | 2.1 | -0.23 | | 0.22 |
| DY | | | 0.0079 m | 65 | 2.0 | -0.60 | | |
| DZ | | | 0.0128 m | 66 | 2.0 | 0.54 | | |
| DX | CS05 | IC08 | 0.0215 m | 50 | 2.8 | 0.11 | | 0.02 |
| DY | | | 0.0129 m | 51 | 2.7 | -0.21 | | |
| DZ | | | 0.0202 m | 51 | 2.7 | 0.05 | | |
| DX | CS04 | IC08 | 0.0135 m | 42 | 3.3 | 0.71 | | 1.14 |
| DY | | | 0.0085 m | 43 | 3.2 | 0.63 | | |
| DZ | | | 0.0128 m | 40 | 3.4 | -1.74 | | |
| DX | CS06 | CS05 | 0.0241 m | 45 | 3.0 | 0.42 | | 0.25 |
| DY | | | 0.0142 m | 48 | 2.9 | -0.03 | | |
| DZ | | | 0.0226 m | 46 | 3.0 | 0.34 | | |
| DX | IC09 | CS05 | 0.0295 m | 82 | 1.3 | 0.45 | | 0.26 |
| DY | | | 0.0182 m | 83 | 1.3 | 0.16 | | |
| DZ | | | 0.0299 m | 85 | 1.2 | -0.85 | | |
| DX | IC06 | IC08 | 0.0149 m | 73 | 1.7 | 0.14 | | 0.04 |
| DY | | | 0.0091 m | 71 | 1.8 | 0.18 | | |
| DZ | | | 0.0145 m | 75 | 1.7 | -0.27 | | |
| DX | IC06 | IC07 | 0.0090 m | 36 | 3.7 | 0.54 | | 0.45 |
| DY | | | 0.0056 m | 38 | 3.6 | 0.88 | | |
| DZ | | | 0.0085 m | 33 | 3.9 | -0.78 | | |
| DX | IC03 | IC05 | 0.0159 m | 78 | 1.5 | 1.16 | | 0.90 |
| DY | | | 0.0088 m | 74 | 1.7 | 1.02 | | |
| DZ | | | 0.0141 m | 71 | 1.7 | -1.19 | | |
| DX | IC05 | RL38 | 0.0143 m | 50 | 2.7 | 0.69 | | 0.66 |
| DY | | | 0.0088 m | 51 | 2.7 | 0.81 | | |
| DZ | | | 0.0149 m | 54 | 2.6 | 0.08 | | |
| DX | IC05 | IC07 | 0.0115 m | 53 | 2.6 | 2.16 | ▲ | 3.09 |
| DY | | | 0.0069 m | 53 | 2.6 | 0.94 | | |
| DZ | | | 0.0109 m | 48 | 2.8 | -2.87 | ▲ | |
| DX | IC01 | IGM049702 | 0.0147 m | 67 | 2.1 | 0.39 | | 4.03 |
| DY | | | 0.0086 m | 60 | 2.3 | 3.33 | ▲ | |
| DZ | | | 0.0137 m | 66 | 2.0 | -0.41 | | |
| DX | CS02 | IC03 | 0.0121 m | 38 | 3.6 | 0.02 | | 1.52 |
| DY | | | 0.0073 m | 36 | 3.7 | 0.48 | | |
| DZ | | | 0.0117 m | 37 | 3.7 | -1.63 | | |
| DX | IC02 | IGM049702 | 0.0128 m | 63 | 2.1 | 0.23 | | 0.16 |
| DY | | | 0.0079 m | 64 | 2.1 | -0.63 | | |
| DZ | | | 0.0119 m | 63 | 2.1 | -0.21 | | |
| DX | CS01 | IC03 | 0.0166 m | 70 | 1.8 | 0.50 | | 1.02 |
| DY | | | 0.0105 m | 72 | 1.7 | -0.23 | | |
| DZ | | | 0.0155 m | 68 | 1.9 | -1.57 | | |
| DX | IGM049705 | IC09 | 0.0226 m | 18 | 6.0 | 0.74 | | 0.21 |
| DY | | | 0.0135 m | 18 | 5.8 | 0.09 | | |
| DZ | | | 0.0215 m | 21 | 5.7 | -0.29 | | |
| DX | IGM049702 | CS02 | 0.0138 m | 55 | 2.5 | 0.03 | | 0.22 |
| DY | | | 0.0085 m | 52 | 2.7 | 0.05 | | |
| DZ | | | 0.0134 m | 54 | 2.6 | -0.64 | | |
| DX | IGM049703 | CS01 | 0.0147 m | 68 | 1.9 | -0.06 | | 0.13 |
| DY | | | 0.0089 m | 64 | 2.1 | 0.35 | | |
| DZ | | | 0.0144 m | 71 | 1.8 | -0.39 | | |
| DX | IC07 | CS04 | 0.0125 m | 52 | 2.6 | 0.21 | | 0.39 |
| DY | | | 0.0078 m | 54 | 2.6 | 0.58 | | |
| DZ | | | 0.0118 m | 50 | 2.7 | -0.90 | | |
| DX | IC04 | IC06 | 0.0121 m | 51 | 2.7 | 1.29 | | 3.83 |
| DY | | | 0.0072 m | 50 | 2.8 | 2.04 | ▲ | |
| DZ | | | 0.0113 m | 47 | 2.9 | -2.81 | ▲ | |
| DX | IC09 | CS06 | 0.0241 m | 21 | 5.4 | 0.42 | | 0.25 |
| DY | | | 0.0142 m | 17 | 6.1 | -0.03 | | |
| DZ | | | 0.0226 m | 16 | 6.0 | 0.34 | | |
| DX | IC06 | CS04 | 0.0129 m | 62 | 2.2 | 0.45 | | 0.19 |

| | | | | | | | | |
|----|-----------|------|----------|----|-----|-------|------|---|
| DY | | | 0.0080 m | 59 | 2.3 | 0.01 | | |
| DZ | | | 0.0125 m | 66 | 2.1 | -0.75 | | |
| DX | IC03 | IC04 | 0.0179 m | 79 | 1.4 | 1.33 | 1.69 | |
| DY | | | 0.0097 m | 75 | 1.6 | 1.74 | | |
| DZ | | | 0.0158 m | 72 | 1.6 | -1.17 | | |
| DX | IGM049903 | IC02 | 0.0173 m | 40 | 3.4 | -0.43 | 0.22 | |
| DY | | | 0.0105 m | 40 | 3.4 | 0.51 | | |
| DZ | | | 0.0164 m | 40 | 3.4 | -0.18 | | |
| DX | IGM049903 | IC01 | 0.0173 m | 51 | 2.7 | 0.43 | 0.22 | |
| DY | | | 0.0105 m | 51 | 2.7 | -0.51 | | |
| DZ | | | 0.0164 m | 52 | 2.7 | 0.18 | | |
| DX | IC01 | IC02 | 0.0118 m | 18 | 5.8 | -0.01 | 3.23 | ⚠ |
| DY | | | 0.0071 m | 20 | 5.5 | -3.07 | | ⚠ |
| DZ | | | 0.0111 m | 18 | 5.8 | 0.45 | | |
| DX | IC02 | CS01 | 0.0126 m | 30 | 4.2 | -0.56 | 2.12 | ⚠ |
| DY | | | 0.0078 m | 32 | 4.1 | -2.40 | | ⚠ |
| DZ | | | 0.0117 m | 30 | 4.3 | 0.55 | | |
| DX | IC03 | RL38 | 0.0206 m | 86 | 1.2 | -1.11 | 0.45 | |
| DY | | | 0.0144 m | 88 | 1.0 | 0.21 | | |
| DZ | | | 0.0215 m | 87 | 1.2 | 0.62 | | |
| DX | IC03 | RL38 | 0.0154 m | 63 | 2.1 | 0.03 | 0.55 | |
| DY | | | 0.0095 m | 64 | 2.1 | -0.69 | | |
| DZ | | | 0.0161 m | 66 | 2.0 | -0.75 | | |
| DX | IGM049702 | CS01 | 0.0120 m | 63 | 2.1 | 0.68 | 1.92 | ⚠ |
| DY | | | 0.0082 m | 74 | 1.7 | 2.04 | | ⚠ |
| DZ | | | 0.0111 m | 64 | 2.1 | -1.61 | | |
| DX | IGM049702 | CS01 | 0.0189 m | 88 | 1.0 | 0.41 | 0.22 | |
| DY | | | 0.0092 m | 81 | 1.4 | -0.03 | | |
| DZ | | | 0.0170 m | 86 | 1.0 | 0.42 | | |

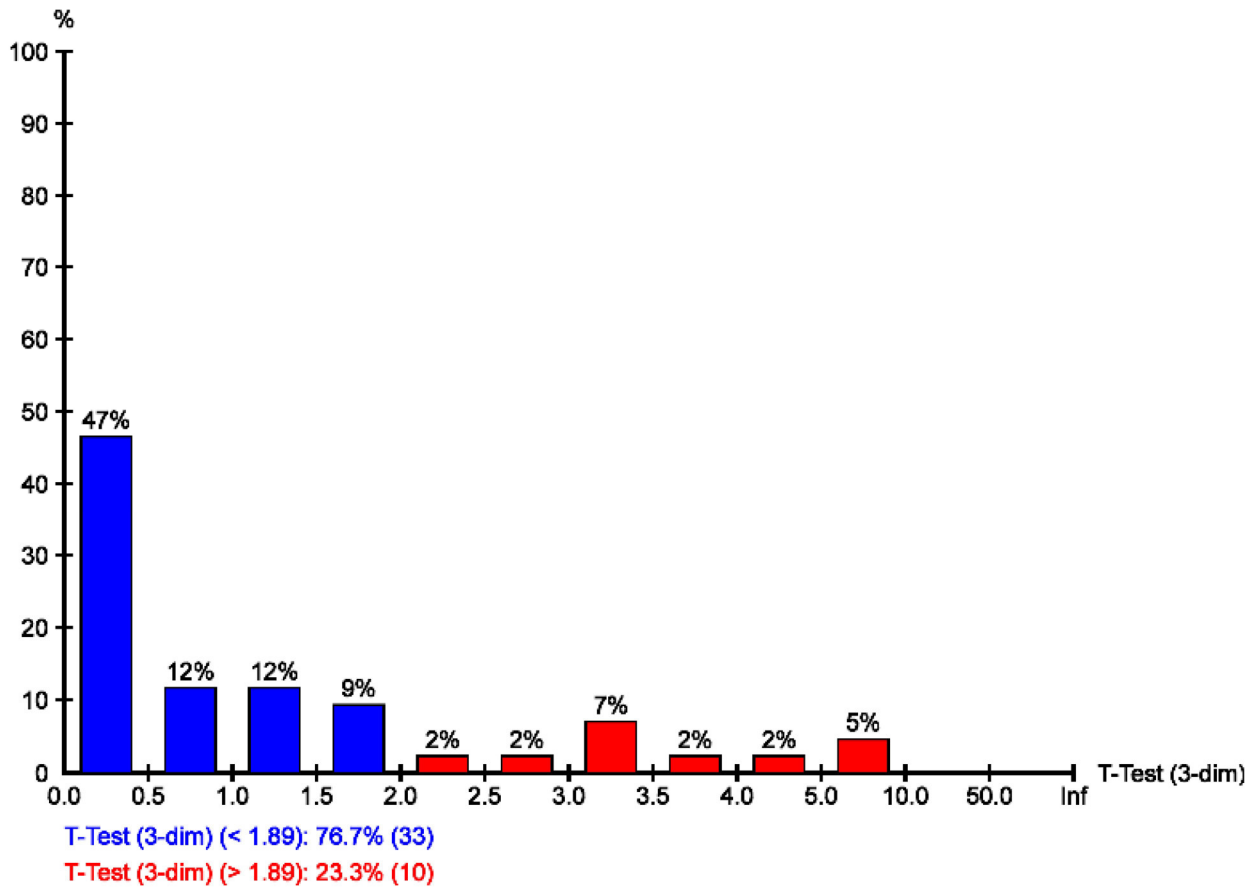
Redundancy:



W-Test:



T-Test (3-dimensional):



Estimated Errors (Coordinates)

Estimated Errors For Coordinates With Rejected W-Tests (max 10)

| Station | W-Test | Fact | Est err |
|---------------------|--------|------|-----------|
| IGM049705 Latitude | 4.47 | 2.3 | 0.0135 m |
| IGM049703 Latitude | -4.35 | 2.2 | -0.0116 m |
| IGM049703 Longitude | 2.43 | 1.2 | 0.0055 m |
| IGM049705 Longitude | -2.38 | 1.2 | -0.0056 m |

Estimated Errors For Stations With Rejected T-Tests (max 10)

| Station | T-Test | Fact | Est err |
|---------------------|--------|------|-----------|
| IGM049703 Latitude | 8.20 | 2.1 | -0.0113 m |
| IGM049703 Longitude | | | 0.0054 m |
| IGM049703 Height | | | -0.0032 m |
| IGM049705 Latitude | 8.47 | 2.1 | 0.0132 m |
| IGM049705 Longitude | | | -0.0055 m |
| IGM049705 Height | | | 0.0040 m |

Estimated Errors (Observations)

Estimated Errors For Observations With Rejected W-Tests (max 10)

| | Station | Target | W-Test | Fact | Est err |
|----|-----------|-----------|--------|------|-----------|
| DY | IC01 | IGM049702 | 3.33 | 1.7 | 0.0102 m |
| DY | IC01 | IC02 | -3.07 | 1.6 | -0.0077 m |
| DZ | IC04 | IC06 | -2.81 | 1.4 | -0.0114 m |
| DY | IC02 | CS01 | -2.40 | 1.2 | -0.0067 m |
| DX | IC07 | IGM049705 | 2.35 | 1.2 | 0.0093 m |
| DX | IGM049703 | IC05 | 2.18 | 1.1 | 0.0094 m |
| DZ | | | -2.56 | 1.3 | -0.0109 m |
| DX | IC05 | IC07 | 2.16 | 1.1 | 0.0089 m |
| DZ | | | -2.87 | 1.5 | -0.0112 m |
| DY | IGM049702 | CS01 | 2.04 | 1.0 | 0.0060 m |

Estimated Errors For Observations With Rejected Antenna Hgt W-Tests (max 10)

| Station | Target | W-Test | Fact | MDB [m] | Est ant err [m] |
|-----------|--------|--------|------|---------|-----------------|
| IGM049703 | IC03 | 2.09 | 1.1 | 0.0180 | 0.0135 |

Estimated Errors For Observations With Rejected T-Tests (max 10)

| | Station | Target | T-Test | Fact | Est err |
|----|-----------|-----------|--------|------|-----------|
| DX | IC01 | IGM049702 | 4.03 | 1.5 | 0.0067 m |
| DY | | | | | 0.0109 m |
| DZ | | | | | 0.0026 m |
| DX | IC04 | IC06 | 3.83 | 1.4 | -0.0010 m |
| DY | | | | | 0.0048 m |
| DZ | | | | | -0.0115 m |
| DX | IC01 | IC02 | 3.23 | 1.3 | -0.0020 m |
| DY | | | | | -0.0079 m |
| DZ | | | | | 0.0003 m |
| DX | IC05 | IC07 | 3.09 | 1.3 | 0.0036 m |
| DY | | | | | 0.0022 m |
| DZ | | | | | -0.0089 m |
| DX | IGM049703 | IC05 | 3.09 | 1.3 | 0.0054 m |
| DY | | | | | 0.0038 m |
| DZ | | | | | -0.0076 m |
| DX | IC07 | IGM049705 | 2.97 | 1.3 | 0.0099 m |
| DY | | | | | 0.0045 m |
| DZ | | | | | -0.0004 m |
| DX | IC02 | CS01 | 2.12 | 1.1 | -0.0042 m |
| DY | | | | | -0.0070 m |
| DZ | | | | | -0.0012 m |
| DX | IGM049702 | CS01 | 1.92 | 1.0 | -0.0006 m |
| DY | | | | | 0.0053 m |
| DZ | | | | | -0.0054 m |